

**Powerful, Rugged  
...Easy to  
Operate**

**PROVEN BY  
YEARS OF  
SERVICE**



**36"**

**MODEL 8HP36**

**Model 8HP36-S  
same as illustrated  
but with  
self-starter.**

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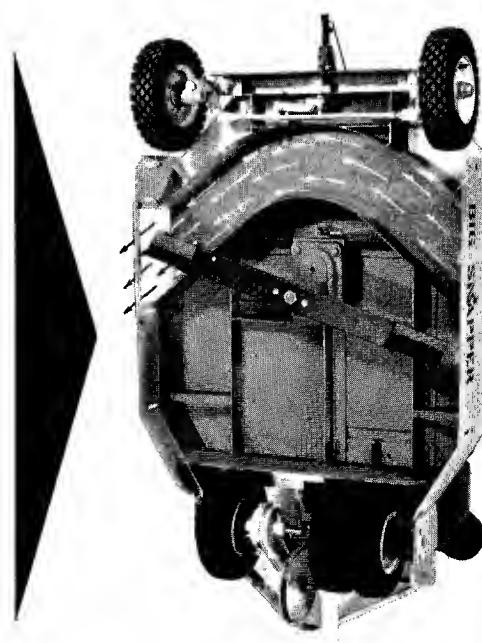
**FOR ESTATES... PARKS... INSTITUTIONS...  
CEMETERIES... any large turf areas.**

**So easy to handle... yet it does a terrific job  
of grass cutting... up to 15 ACRES A DAY!**

**Check these features:**

- Full 36" cutting width.
- 9 HP, 4 cycle heavy duty engine.
- Cutting height,  $\frac{3}{4}$  to 6".
- Easy topside cutter height adjustment.
- Sensational Channel Spray Grass Chute.
- Heavy duty Transmission.
- Variable Speed Drive.
- Forward Speed 1 to 10 mph.
- Tires 4.10/3.50-6, pneumatic on front; lifetime laminated on rear.
- Fingertip controls and steering.
- Reverse, standard equipment.
- Leaf mulcher available.
- Approx. Weight 600 lbs.

**END YOUR MOWING PROBLEMS  
WITH A FAMOUS BIG SNAPPER**



**Made by McDONOUGH POWER EQUIPMENT, INC., McDonough, Georgia, U. S. A.**

## ASSEMBLY, OPERATION, SERVICE MANUAL AND PARTS LIST

# BIG SNAPPER

### MODEL 8HP36 - "C" SERIES

Uncrate mower and check carefully to see that no damage occurred in shipment.

#### LUBRICATION AND SERVICE

- A. Service and lubricate engine per instructions in engine manual. Keep air shrouds and screens free of grass and foreign matter.
- B. Fill transmission to lower drain plug level with SAE 90 general purpose transmission oil. This will require 12 to 14 ounces (about one pint). The oil level is checked with oil gauge supplied with these instructions. To check oil level, lift oil cap, drop wire down into transmission until loop rests on oil cup. Withdraw. Oil level should show at the kink on the gauge. Change this oil twice each season.
- C. Fill center axle bearing with medium weight motor oil. Refill daily.
- D. Outboard bearings are precision, self-aligning, sealed bearings and do not require lubrication.
- E. Grease front wheels with medium cup grease, using pressure gun. Repeat daily.
- F. Lubricate steering fittings with medium cup grease, using pressure gun. Repeat daily.
- G. Fill oil cup on speed selector with SAE 30 oil. Repeat daily when mower is in use.
- H. Maintain approximately 30 pounds pressure in pneumatic tires.

#### GENERAL OPERATION

- A. Before cranking engine, place both the engine shift lever (on operator's left hand), and the transmission shift lever (on operator's right hand), in neutral positions. This will be with the levers pushed forward and the keeper pins engaging their respective holes.
- B. To put cutter spindle into operation, after cranking engine, move the engine shift lever rearward slowly until the keeper pin engages the rear hole in the quadrant.

- C. To put the machine into forward motion, move the transmission shift lever rearward slowly until the machine moves forward. To increase speed, move the lever further rearward.
- D. To reverse the machine, move the transmission shift lever to the extreme forward position, past the neutral position, and hold there so long as reverse motion is desired.
- E. To stop suddenly, move the transmission shift lever from the forward to reverse positions quickly and then back into neutral.
- F. Keep belt surfaces of speed selector unit clean. A deposit of surplus grease here will allow transmission drive belts to slip.

#### ADJUSTMENTS

- A. To adjust cutter blade height:  
Loosen pulley on cutter spindle and remove tapered bushing. Loosen draw bolt in front of spindle housing. Move entire spindle assembly up or down to desired cutting height. Retighten draw bolt. Replace tapered bushing in sheave and retighten.
- B. To adjust cutter blade belts:  
Set engine shift lever in rear position. Loosen lock nut on engine pull rod and adjust engine rearward to tighten belts, or forward to loosen belts. Retighten lock nuts.
- C. To adjust transmission drive belts:  
To adjust engine to speed selector belt, loosen lock nuts on pull rod to speed selector support bar. Set transmission shift lever in neutral position. Adjust lock nuts so that reverse discs clear each other about 1/4" to 3/8". Retighten lock nuts.

To adjust speed selector to transmission belt, loosen lock nuts at forward end of transmission tie rod. Set transmission shift lever in "reverse" position and adjust lock nuts until correct tension is applied to belts. Retighten lock nuts.

Adjust restricting set screw on quadrant so that the speed selector to transmission belt will not climb out of speed selector sheave when machine is in highest forward speed.

# GET TOP PERFORMANCE FROM YOUR BIG SNAPPER

The following tips will help you get fast, efficient performance from your BIG SNAPPER. You will discover many other ways BIG SNAPPER will lighten your mowing work, but these suggestions will help you get started.

First, set the cutter bar for the height you want to cut and adjust the side shields so they extend a little BELOW the cutter blades.

Fastest coverage of the ground will be achieved if a strip is mowed all around the area to be cut and then continuing in a circular manner until the area is clean.

When cutting very rough terrain, adjust the cutter bar and side shields upward and do not try to cut close. Damage will be suffered by the cutter unit if it continually strikes rocks or digs into rough terrain.

Keep your belts correctly adjusted — never have them too tight. Leaving the cutter drive belts a little loose will

minimize damage to the cutter unit in case rocks or other obstructions are encountered.

Sudden starts, stops, and reverses with the engine running at high speed should be avoided. Such sudden starts, stops, and reverses are as hard on BIG SNAPPER as they would be on your car, and could be dangerous to the operator.

To make your BIG SNAPPER more useful for year round operation, a leaf mulching attachment is available at low cost. With this attachment you can eliminate leaf raking, hauling and burning, and convert the fallen leaves to valuable fertilizer. Ask your dealer about this.

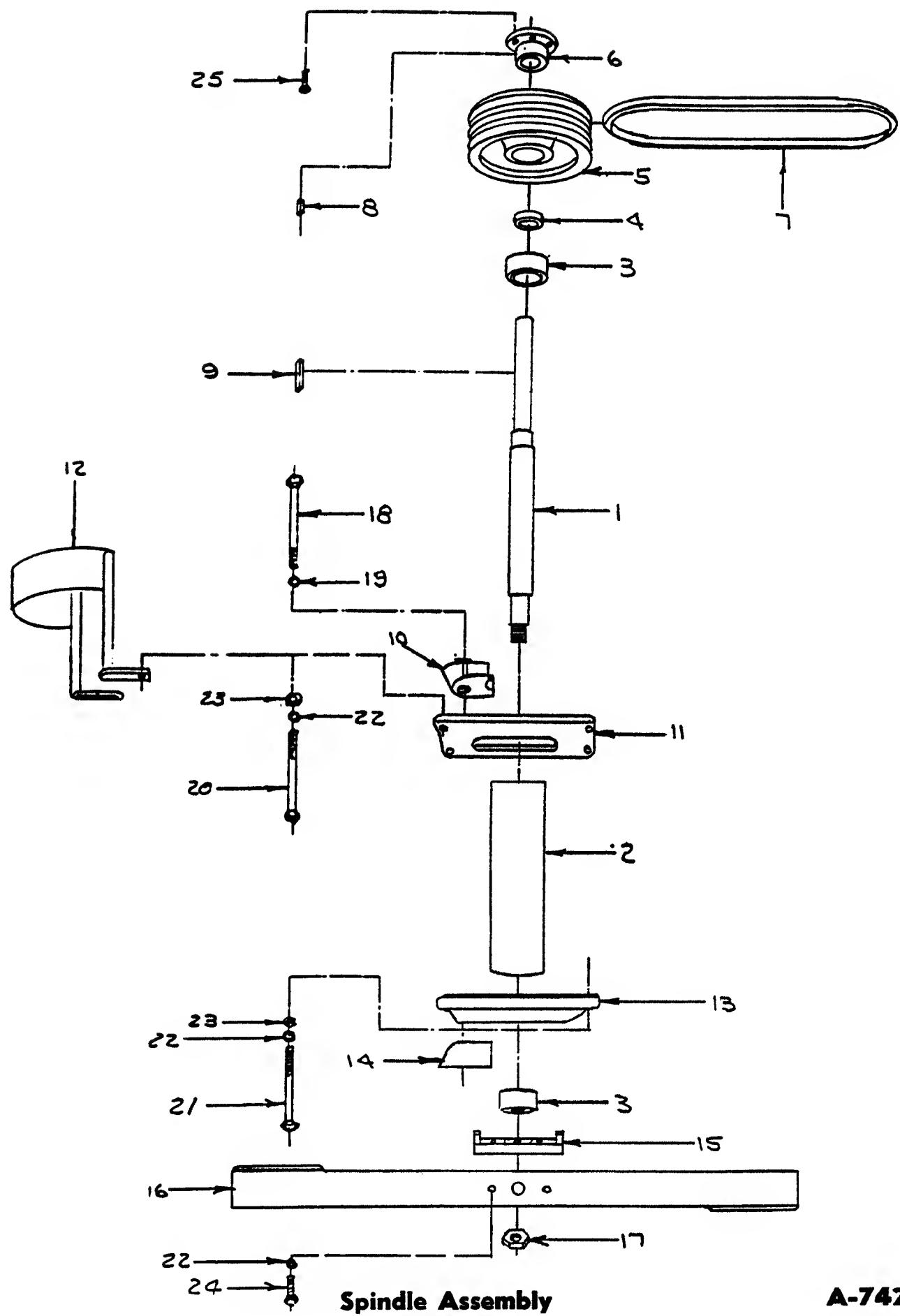
See your dealer or write the factory if you need any special help or advice.

POWER IMPLEMENT DIVISION  
McDONOUGH POWER EQUIPMENT, INC.  
McDONOUGH, GEORGIA, U.S.A.

## PARTS LIST SNAPPER MODEL 8HP36 - "C" SERIES

Drawing No. A-742A

Part No.	Description	No. Req'd.	Part No.	Description	No. Req'd.
1. 2-7027	Cutter spindle	1	14. 2-0162	Spindle flange wedge, lower	1
2. 2-7028	Cutter spindle housing	1	15. 4-0069	Collar plate assembly	1
3. 1-0204	Cutter spindle bearing	2	16. 1-8011	Cutter bar	1
4. 2-0160	Spindle set collar	1	17. 1-0209	Jam nut	1
5. 2-7030	Spindle pulley, double groove	1	18. 1-0208	Draw bolt	1
6. 1-0206	Taper lock bushing	1	19.	5/8" split lock washer	1
7. 1-0207	Spindle drive belt	2	20.	1/2"-20 x 5-1/2" hex head cap screw	2
8.	3/8" x 5/16" x 3/4" key	1			
9. 1-0210	Spindle pulley key	1	21.	1/2"-20 x 5" hex head cap screw	2
10. 2-0161	Spindle flange wedge, upper	1	22.	1/2" split lock washer	6
11. 2-7031	Spindle housing flange, upper	1	23.	1/2"-20 hex nut	4
12. 4-7046	Spindle belt guard assembly	1	24.	1/2"-20 x 1" hex head cap screw	2
13. 2-7032	Spindle flange, lower	1	25.	5/16"-18 x 1" hex head cap screw	3
			26. 6-0012	Mulcher Set (optional) (not shown) consisting of: (1) 4-9511 Mulcher (1) 4-7079 Auxiliary bar	

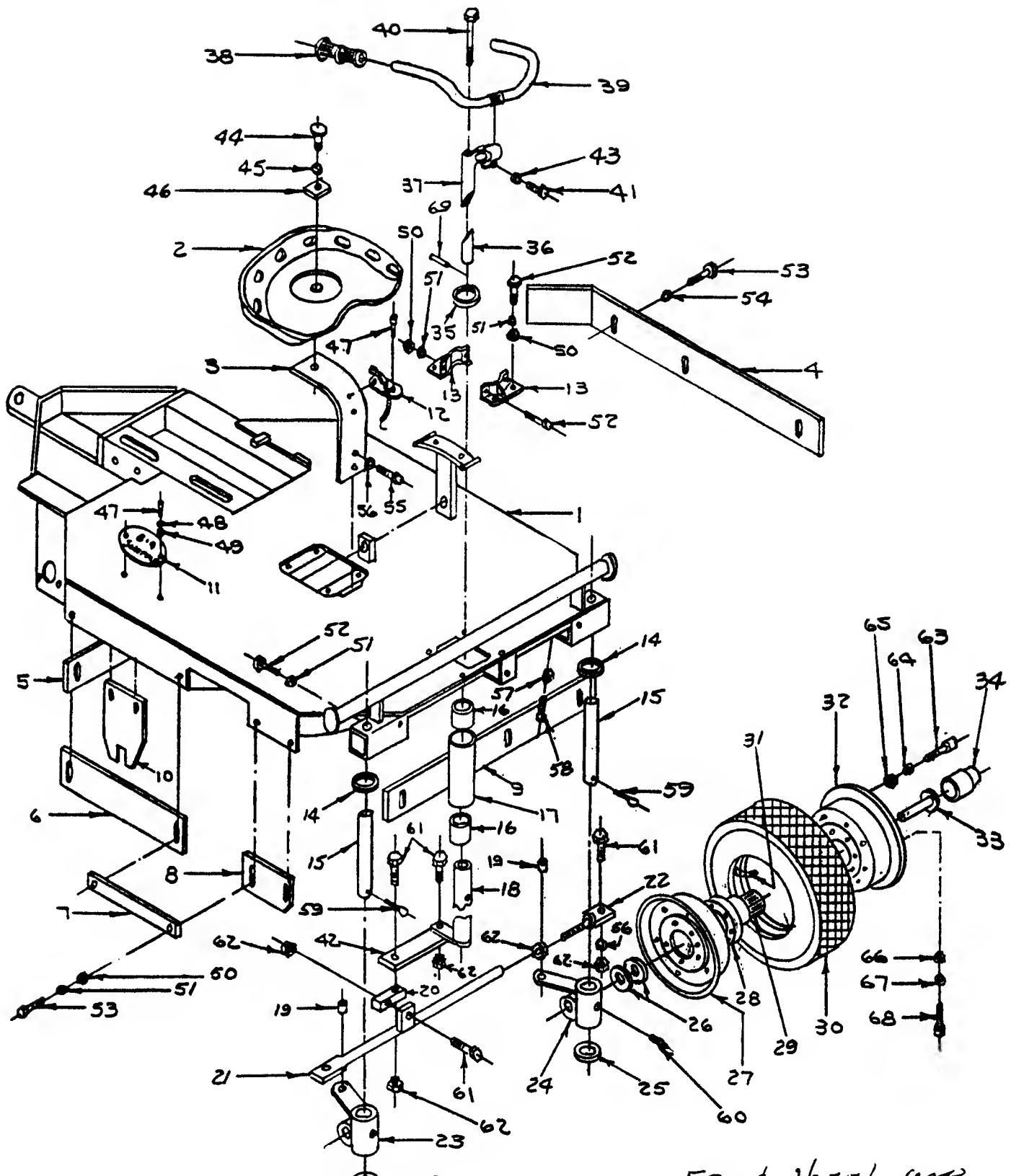


A-742A

# PARTS LIST SNAPPER MODEL 8HP36 - "C" SERIES

Drawing No. A-738A

Part No.	Description	No. Req'd.	Part No.	Description	No. Req'd.
1. 4-9513	Frame and deck structure	1	39. 1-0148	Handle bar	1
2. 1-0139	Seat pan	1	40. 1-0151	Wedge screw	1
3. 3-0254	Seat bracket	1	41. 1-0331	Post screw	1
4. 3-0251	Lower skirt, L. H.	1	42. 2-0133	Drag link	1
5. 3-0252	Lower skirt, rear	1	43. 1-0421	Post washer	1
6. 3-0250	Lower skirt, R. H. rear	1	44.	7/16"-14 x 1" carriage bolt	1
7. 2-0221	Grass chute guard	1	45.	7/16" split lock washer	1
8. 3-0249	Lower skirt, R. H. front	1	46.	7/16" - 14 square nut	1
9. 2-0217	Front guard	1	47.	10-32 x 3/4" Phillips head screw	4
10. 3-0253	Center bearing support	1	48.	10-32 internal shakerproof lock washer	4
11. 2-0216	Name plate	1	49.	10-32 hex nut	4
12. 1-0017	Throttle control	1	50.	5/16"-24 hex nut	6
13. 4-7018	Spindle bracket assembly	2	51.	5/16" split lock washer	12
14. 1-0179	King pin thrust washer	2	52.	5/16"-24 x 1" hex head cap screw	10
15. 2-0208	King pin	2	53.	5/16"-24 x 3/4" hex head cap screw	13
16. 1-0155	Bronze bearing	2	54.	5/16" SAE flat washer	13
17. 5-0032	Steering tube	1	55.	1/2"-20 x 2-1/2" hex head cap screw	2
18. 4-0066	Steering post assembly	1	56.	1/2" split lock washer	4
19. 1-0022	Bronze bushing	2	57.	3/8"-16 hex nut	2
20. 2-0132	Universal joint, steering	1	58.	3/8"-16 x 1-1/4" square head set screw	2
21. 4-0083	Tie rod assembly, long	1	59.	3/16" x 1-3/4" cotter pin	2
22. 4-0084	Tie rod assembly, short	1	60. 1-0180	Alemite fitting	2
23. 2-9504	King pin block, R. H.	1	61.	1/2"-20 x 1-3/4" hex head cap screw	5
24. 2-9505	King pin block, L. H.	1	62.	1/2"-20 hex nut	6
25. 1-0179	King pin thrust washer	2	63.	3/8"-24 x 3/4" Phillips head screw, plated	12
26. 2-0136	Front wheel thrust washer	4	64.	3/8" split lock washer, plated	12
27. 1-0185	Wheel disc, no valve stem hole	2	65.	3/8"-24 hex nut plated	12
28. 1-0182	Wheel hub	2	66.	1/4"-28 hex nut, plated	12
29. 1-0183	Roller bearing	4	67.	1/4" split lock washer, plated	12
30. 1-0329	Pneumatic tire, 2 ply	2	68.	1/4"-28 x 1-1/4" Phillips head screw, plated	12
31. 1-0188	Tube assembly	2	69. 1-0152	Locking pin	1
32. 1-0186	Wheel disc, with valve stem hole	2	70. 1-0416	Caution decal (not shown)	1
33. 4-0063	Axle pin assembly	2			
34. 1-0181	Hub cap	2			
35. 3-0158	Dust cap	1			
36. 2-0476	Wedge	1			
37. 1-0149	Handle bar post	1			
38. 1-0031	Handle grip	2			



Front wheel case  
5-0085-

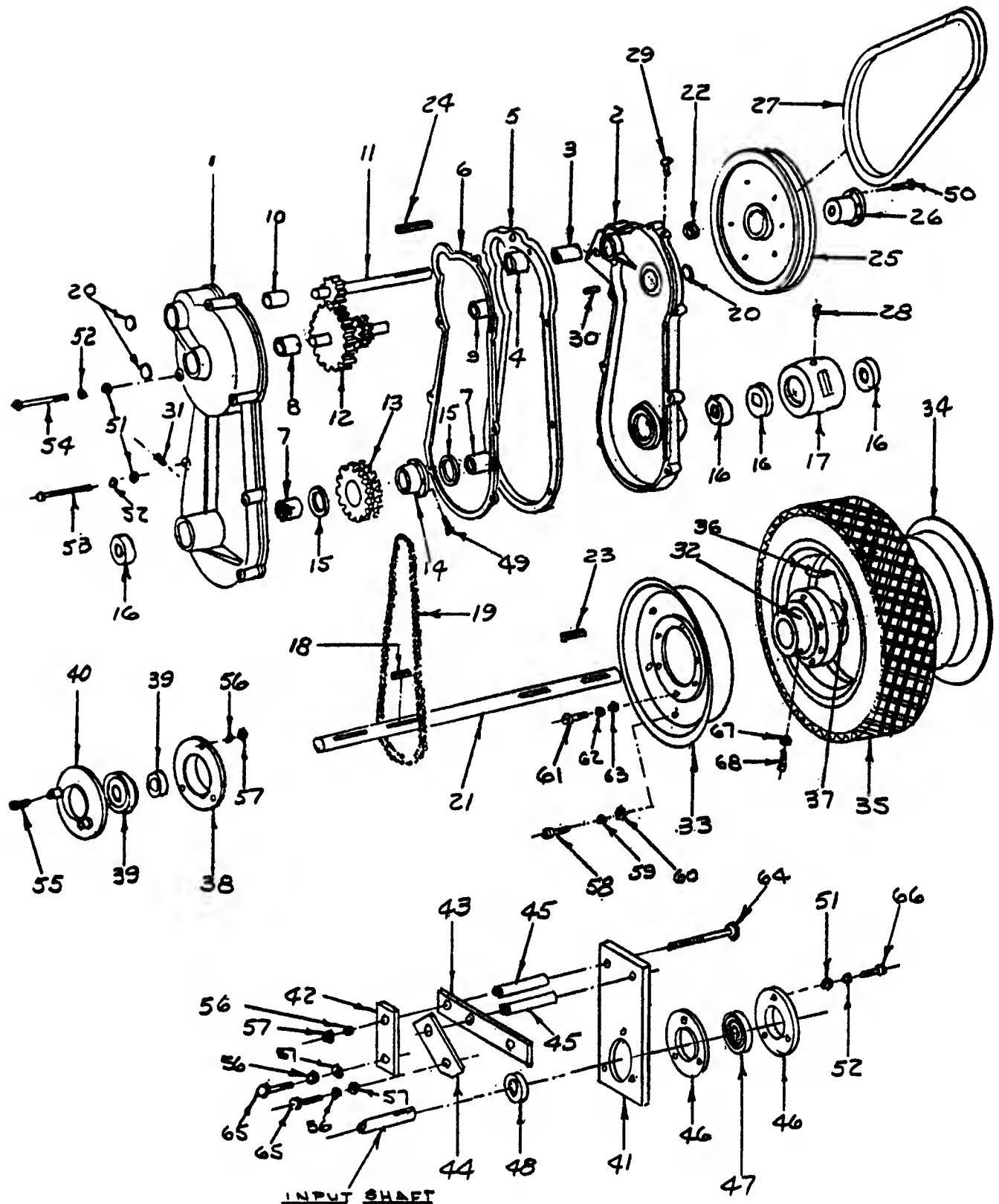
## **Deck and Steering Assembly**

**A-738A**

# PARTS LIST SNAPPER MODEL 8HP36 - "C" SERIES

Drawing No. A-739A

Part No.	Description	No. Req'd.	Part No.	Description	No. Req'd.
1. 5-0034	Transmission case, R. H.	1	37. 1-0189	Valve caps (optional)	5
2. 5-0035	Transmission case, L. H.	1	38. 2-0222	inner flange	2
3. 1-0338	Input shaft bearing, large	1	39. 1-0132	Outboard bearing with set collar	2
4. 1-0213	Input shaft thrust bearing	1	40. 4-0064	Outer bearing flange assembly	2
5. 2-7033	Transmission case spacer	1	41. 3-0316	Bearing plate	1
6. 1-8002	Transmission gasket	2	42. 3-0317	Vertical arm	1
7. 1-0217	Axle shaft bearing	2	43. 3-0318	Horizontal arm	1
8. 1-0215	Int. shaft bearing	1	44. 3-0319	Short arm	1
9. 1-0216	Int. shaft bearing	1	45. 2-0291	Spacer tube	2
10. 1-0214	Small input shaft bearing	1	46. 1-0277	Flangette	2
11. 2-0163	Input shaft and pinion	1	47. 1-0278	Bearing	1
12. 5-0037	Int. shaft and gear assembly	1	48. 1-0279	Locking set collar	1
13. 2-7034	Axle sprocket	1	49.	1/4"-28 x 1" socket head cap screw	4
14. 2-0166	Taper lock bushing	1	50.	1/4"-20 x 5/8" hex head cap screw	2
15. 1-0075	Fibre thrust washer	3	51.	1/4"-28 hex nuts	10
16. 1-0074	Axle shaft oil seal	4	52.	1/4" split lock washer	10
17. 2-0292	Center bearing, rear axle	1	53.	1/4"-28 x 2-3/4" hex head cap screw	4
18. 1-0170	Axle key, hardened	1	54.	1/4"-28 x 3" hex head cap screw	3
19. 1-0212	Transmission chain	1	55.	3/8"-24 x 1-3/4" hex head cap screw	4
20. 1-0068	Expansion plug	3	56.	3/8" split lock washer	8
21. 2-7035	Rear axle	1	57.	3/8"-24 hex nut	8
22. 1-0051	Input shaft oil seal	1	58.	3/8"-24 x 3/4" Phillips head screw, plated	18
23. 1-0218	Key, rear axle	3	59.	3/8" split lock washer, plated	18
24. 1-0061	Input shaft key	1	60.	3/8"-24 hex nut, plated	18
25. 1-0190	Input shaft sheave	1	61.	1/4"-28 x 1-1/4" Phillips head screw, plated	18
26. 1-0191	Taper lock bushing	1	62.	1/4" split lock washer, plated	18
27. 1-0192	Drive belt, speed selector to transmission	1	63.	1/4"-28 hex nut, plated	18
28. 1-0078	Axle bearing oil fitting	1	64.	3/8"-24 x 4-3/4" hex head cap screw	2
29. 1-0073	Oil fitting	1	65.	3/8"-24 x 1-1/2" hex head cap screw	2
30. 2-0036	Dowel pin	2	66.	1/4"-28 x 1" hex head cap screw	3
31. 1-0050	Pipe plug, drain	1	67.	5/16"-18 hex jam nut	6
32. 2-7025	Wheel hub, rear axle	3	68.	5/16"-18 x 1-1/4" square head set screw	6
33. 1-0185	Wheel disc, without valve stem hole	3			
34. 1-0186	Wheel disc, with valve stem hole	3			
35. 1-0187	Pneumatic tire, 4 ply (optional)	3			
35. 1-0420	Tire, 4x6 laminated	3			
36. 1-0188	Tube assembly (optional)	3			



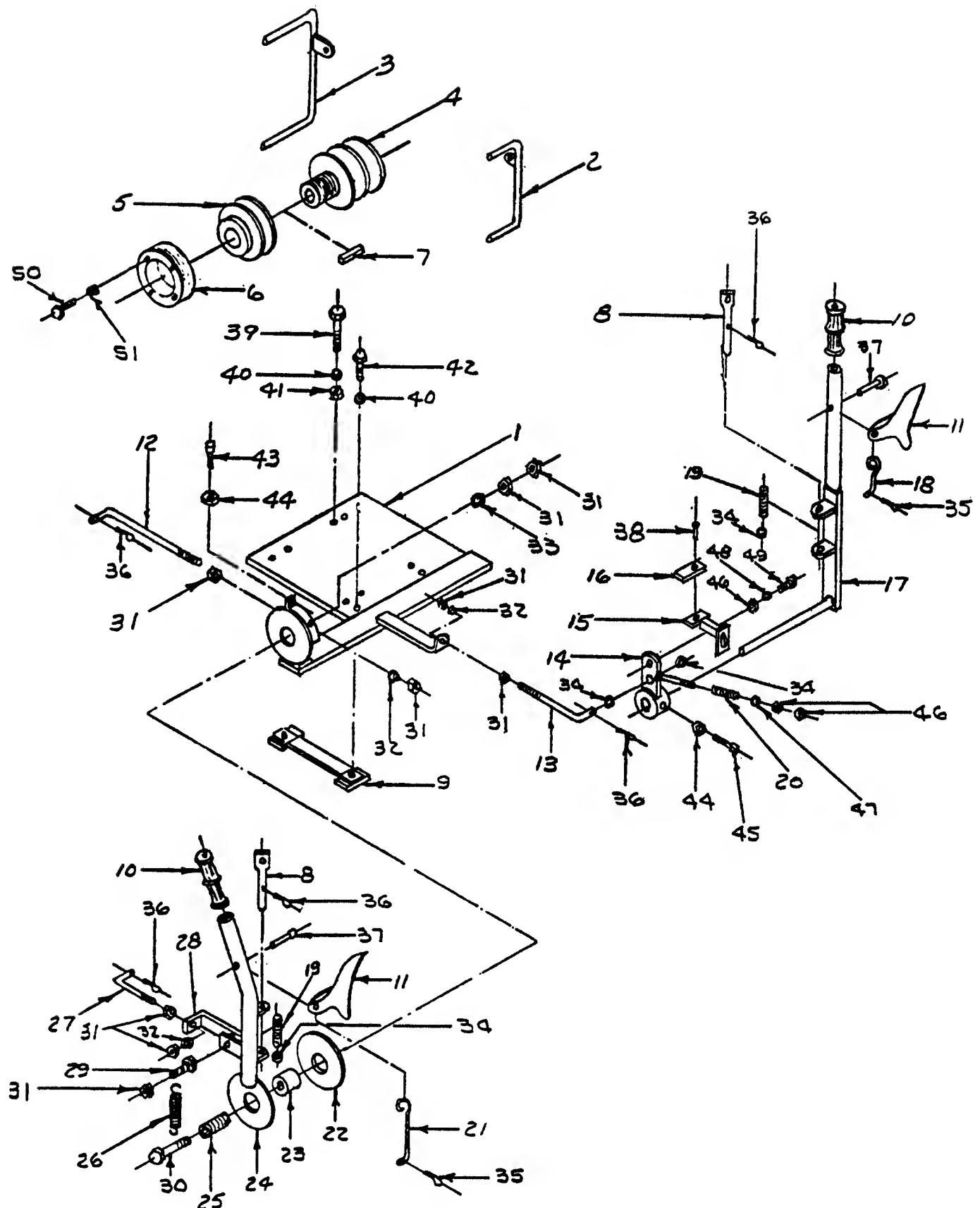
Transmission

A-739A

# PARTS LIST SNAPPER MODEL 8HP36 - "C" SERIES

## Drawing No. A-740A

Part No.	Description	No. Req'd.			
1. 4-7049	Engine base assembly, Wisconsin	1	26. 1-0219	Tension spring	1
2. 4-0072	Belt bracket, cutter drive assembly	1	27. 2-0196	Transmission pull rod	1
3. 4-0073	Belt bracket, engine to speed selector	1	28. 3-0236	Pull rod terminal	1
4. 4-0077	Engine sheave assembly, Wisconsin	1	29. 2-0173	Spring bolt	1
5. 2-0181	Engine sheave, single groove, threaded bore	1	30. 1-0227	Pivot pin	1
6. 5-0038	Engine reverse disc assembly	1	31.	1/2"-20 hex nut	9
7. 1-0221	Engine key	1	32.	1/2" split lock washer	3
8. 2-0191	Keeper pin	2	33.	1/2" wrought washer	1
9. 4-7051	Holdown key assembly	1	34.	1/2" SAE flat washer	4
10. 1-0031	Handle grip	2	35.	1/16" x 1/2" cotter pin	2
11. 1-0143	Squeeze handle	2	36.	1/8" x 1" cotter pin	5
12. 2-0198	Transmission anchor rod	1	37.	1/4" x 7/8" round head rivit	2
13. 2-7036	Engine pull rod	1	38.	#7-7 rivit	1
14. 4-7052	Bell crank and spindle brake mount assembly	1	39.	3/8"-24 x 3" hex head cap screw	4
15. 4-0078	Spindle brake shoe assembly	1	40.	3/8" split lock washer	6
16. 2-0193	Lining block, spindle brake	1	41.	3/8" hex nut	4
17. 4-9512	Shift lever assembly	1	42.	3/8"-24 x 1" hex head cap screw	2
18. 2-0190	Pull rod	1	43.	5/16"-18 x 1-1/4" square head set screw	1
19. 1-0224	Compression spring	2	44.	5/16"-18 hex jam nut	2
20. 1-0225	Spindle brake tension spring	1	45.	5/16" 18 x 1 square head set screw	1
21. 2-7037	Pull rod	1	46.	5/16"-24 hex nut	3
22. 2-0197	Friction washer	1	47.	5/16" SAE flat washer	1
23. 2-7038	Steel bushing	1	48.	5/16" split lock washer	1
24. 4-7053	Shift lever assembly	1	49.	5/16" 24 x 1" hex head cap screw	1
25. 1-0226	Tension spring	1	50.	1/4"-20 x 1-1/2" hex head cap screw	4
			51.	1/4" split lock washer	4



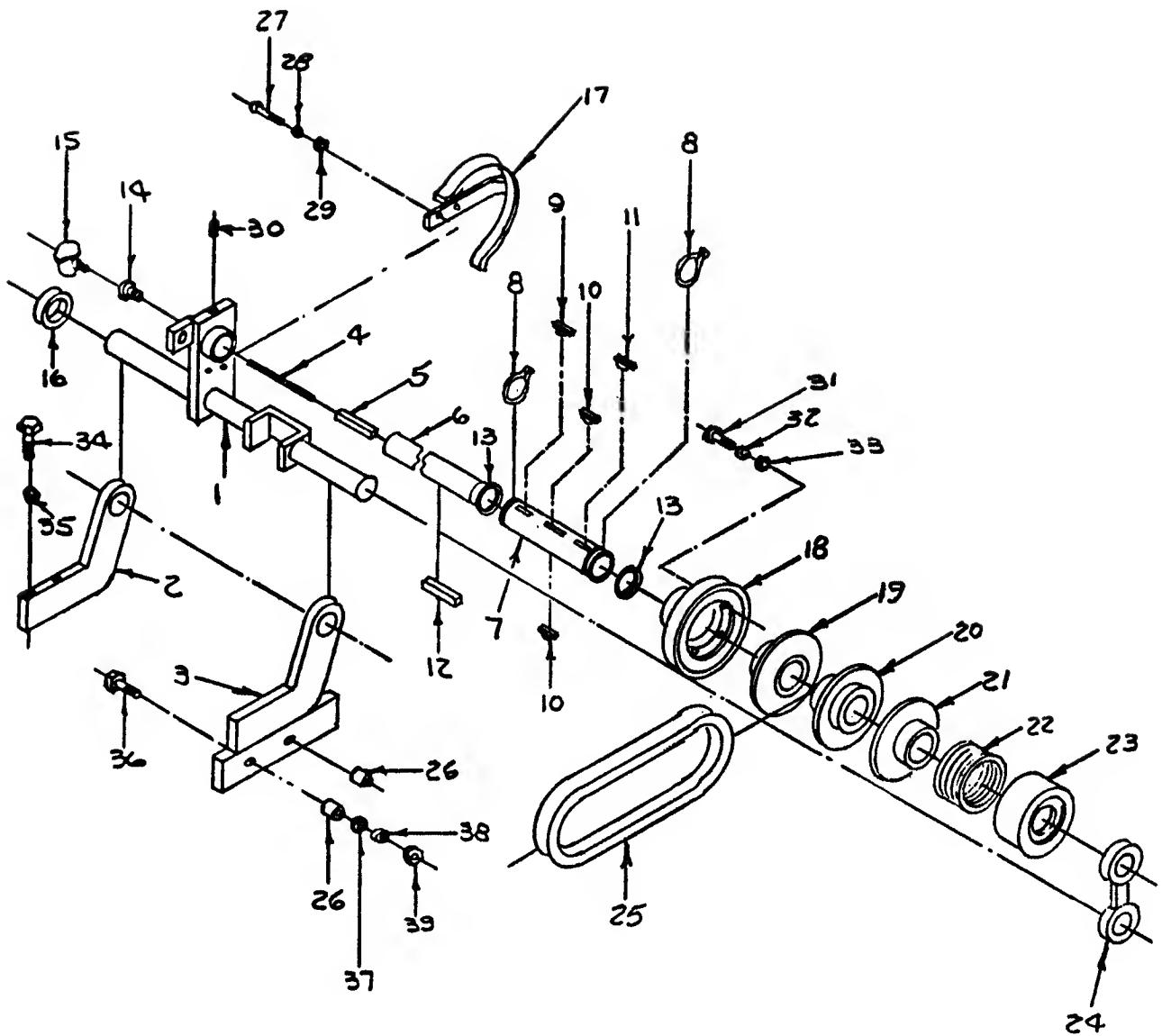
**Engine Base and Trans. Shift Ass'm.**

**A-740A**

# PARTS LIST SNAPPER MODEL 8HP36 - "C" SERIES

Drawing No. A-741A

Part No.	Description	No. Req'd.		
1. 4-7047	Mounting bracket assembly	1	22. 1-0196	Compression spring 1
2. 3-0218	Outboard bracket	1	23. 2-0148	Spring housing cap 1
3. 4-0071	Inboard bracket assembly	1	24. 4-0101	Speed selector support structure 1
4. 1-0202	Oil wick	1	25. 1-0193	Belt, engine to speed selector 1
5. 1-0201	Oil wick	1	26. 2-0171	Spacer 2
6. 2-0142	Pin	1	27.	10-32 x 3/4" round head phillips head screw 2
7. 5-7002	Bronze sleeve	1	28.	10-32 internal shakerproof lock washer 2
8. 1-0197	Retaining ring	2	29.	10-32 hex nut 2
9. 2-0146	Front key	1	30.	5/16"-18 allen set screw 2
10. 1-0195	Morton woodruff key	2	31.	1/4"-20 x 1" hex head cap screw 4
11. 2-0147	Rear key	1	32.	1/4" split lock washer 4
12. 1-0199	Oil wick	1	33.	1/4" SAE flat washer 4
13. 1-0121	Thrust washer	2	34.	5/16"-24 x 2" hex head cap screw 2
14. 1-0200	Reducing bushing	1	35.	5/16" split lock washer 2
15. 1-0162	Oil cup	1	36.	3/8"-24 x 2" hex head cap screw 2
16. 2-0172	Locking collar	1	37.	3/8" SAE flat washer 2
17. 4-7069	Speed selector belt guard assembly	1	38.	3/8" split lock washer 2
18. 2-7026	Reverse disc	1	39.	3/8"-24 hex nut 2
19. 2-0143	Half pulley, fixed	1		
20. 2-0144	Half pulley, center	1		
21. 2-0145	Half pulley, end	1		



**Speed Selector and Support Ass'm.**

**A-741A**



*The*  
**SNAPPER LINE**  
**of rotary mowers**  
**is made by**  
**McDONOUGH POWER EQUIPMENT, INC.**  
**Power Implement Division**  
**McDonough, Ga., U.S.A.**